

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	2	("20050263779"   "20060076574").PN. OR ("7180096").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 08:32
L22	3840	257/13,14,103,e33.008,e33.023,e33.025.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 09:04
L23	1983	(In\$\$Ga\$\$N or Ga\$\$In\$N or InGaN or GaInN) same (mqw or (multi\$3 adj layer) or multi\$layer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 09:10
L24	1983	(In\$\$Ga\$\$N or Ga\$\$In\$N or InGaN or GaInN) same (mqw or (multi\$3 adj layer) or multi\$layer)22 and 23	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 09:13
L25	387	22 and 23	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 09:13
S1	1984	257/e33.008,e33.023,e33.025,e33.027,e33.028,e33.03.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 09:57
S2	1813	S1 and (LED or (light adj emit\$4 adj (device or diode)))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 09:58
S3	1371	S2 and (GaN or (gallium adj nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:25
S4	36	S3 and (esd or (electr\$4 adj static adj discharg\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 10:00
S5	74	("5146465"   "5306662").PN. OR ("6172382").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 10:15
S6	1984	257/e33.008,e33.023,e33.025,e33.027,e33.028,e33.03.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:26
S7	1813	S6 and (LED or (light adj emit\$4 adj (device or diode)))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:26
S8	1230	S7 and (In\$\$Ga\$\$N or Ga\$\$In\$N or (indium near2 gallium near2 nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:27
S9	1230	S7 and (In\$\$Ga\$\$N or Ga\$\$In\$N or InGaN or GaInN or (indium near2 gallium near2 nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:34
S10	680	S9 and (MQW or (quantum adj well)) and (lattice or superlattice or (super adj lattice))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:34

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S11	1081	S7 and (InGa <sub>N</sub> or GaIn <sub>N</sub> or (indium near <sub>2</sub> gallium near <sub>2</sub> nitride))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:34
S12	604	S11 and (MQW or (quantum adj well)) and (lattice or superlattice or (super adj lattice))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 17:34
S13	29	("5278435"   "5290393"   "5693963").PN. OR ("5903017").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 11:30
S14	18	("5777350"   "5889806"   "5903017"   "5923690"   "5932896"   "5987048"   "6120909"   "6121639").PN. OR ("6285696").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 12:54
S15	7	("5585648"   "5751013"   "5793054"   "5959307"   "6072197"   "6078064"   "6285696").PN. OR ("6670647").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 15:02
S16	7	("5585648"   "5751013"   "5793054"   "5959307"   "6072197"   "6078064"   "6285696").PN. OR ("6670647").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 16:47
S17	662	hexagonal with (pit or dislocation or defect)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 16:47
S18	3688	ingan with (MQW or layer or multi\$layer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 16:49
S19	1	S17 same S18	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 16:49
S20	167	S17 same (ingan or (MQW or layer or multi\$layer))	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 13:47
S21	3	S17 same (ingan and (MQW or layer or multi\$layer))	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 16:56
S22	166	S17 same (MQW or layer or multi\$layer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 16:56
S23	11	"6370176"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 17:03
S24	177615	(In\$\$Ga\$\$N or Ga\$\$In\$N or InGa <sub>N</sub> or GaIn <sub>N</sub> )	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 15:25

## EAST Search History

S25	139947	((alternat\$4 or varying or rais\$3 or lower\$3 or chang\$3) with temperature) same layer	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:13
S26	7579	S24 and S25	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:12
S27	1074	S24 same S25	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:13
S28	718	S26 and mqw	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:13
S29	243	S27 and mqw	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:14
S30	59330	((alternat\$4 or varying or rais\$3 or lower\$3 or chang\$3) with temperature) with layer	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:13
S31	559	S24 same S30	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:13
S32	174	S31 and mqw	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 13:14
S33	531	(In\$\$Ga\$\$N or Ga\$\$In\$N or InGaN or GaInN) same (mqw or (multi\$3 adj layer) or multi\$layer) same (((n adj type) or n\$type) near3 (GaN or (gallium nitride)))	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 09:05
S34	29	S33 same (dislocat\$4 or defect or imperfect\$5 or pits or hexagonal)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 15:52
S35	706	(dislocat\$4 or defect or imperfect\$5 or pits) with hexagonal	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 15:53
S36	25	S33 and S35	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/22 15:53
S37	1	"7193246"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 09:43
S38	5	yellow near2 band near2 intensity	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 13:47